## Potential Problems with Sample Shipment and Analysis

- Incorrect or incomplete Paperwork
- Laboratory Receipt of Incorrect Samples
- Insufficient Volume for Analysis Requested
- Broken or Leaking Samples

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- Matrices other than Water or Soil (i.e., Rocks, Leaves, Sticks, Oil, Etc.)
- Non-Homogeneous/Multi-Phase Water or Soil Samples
- Analytical Problems with Samples
- Laboratory Accidents involving Samples

If Any of These Problems Are Encountered, Contact SMO immediately

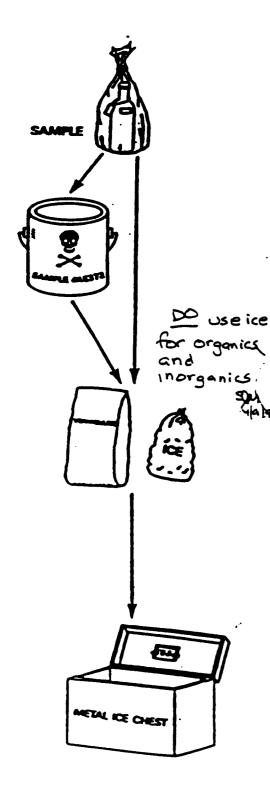


# **RAS Summary**

- Standardized Analyses for Organics and Inorganics
- Low/Medium Concentration Waters and Soils
- High Concentration Multi-Phase Samples
- One Week Leadtime
- Projects Designated by a Case Number, Example: Case No. 17000

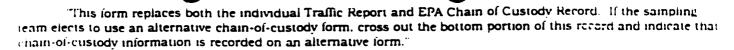


# SAMPLE PACKAGING SUMMARY



- ENCLOSE ALL SAMPLE CONTAINERS IN CLEAR PLASTIC BAGS.
- PACK ALL MEDIUM AND HIGH LEVEL WATER AND SOIL SAMPLES IN METAL PAINT CANS.
- 4 LABEL PAINT CANS WITH SAMPLE NUMBER OF SAMPLE CONTAINED INSIDE.
- SURROUND CONTENTS OF CAN WITH NONCOMBUSTIBLE, ABSORBENT PACKING MATERIAL.
- \*USING FREEZER PACKAGES OR ICE SEALED IN PLASTIC BAGS, COOL ORGANIC LOW OR MEDIUM SAMPLES AND MORGANIC SAMPLES TO BE ANALYZED FOR CYANIDE TO 4°C.
- ICE IS NOT REQUIRED IN SHIPPING LOW LEVEL SOIL SAMPLES, BUT MAY BE UTILIZED AT THE DISCRETION OF THE SAMPLER.
- DO NOT COOL DIOXIN, INORGANIC LOW LEVEL
  WATER, INORGANIC MEDIUM/HIGH LEVEL WATER OR
  SOIL, OR ORGANIC HIGH LEVEL WATER OR SOIL
  SAMPLES.
- PACK SEALED PAINT CANS OR PLASTIC-ENCLOSED SAMPLE BOTTLES IN SHIPMENT CONTAINER.
- USE A METAL'ICE CHEST FOR SHIPMENT (DO NOT USE CARDBOARD OR STYROFOAM CONTAINERS TO SHIP SAMPLES).
- SURROUND CONTENTS WITH NON-COMBUSTIBLE, ABSORBENT PACKING MATERIAL (DO NOT USE EARTH OR ICE PACKING MATERIALS).
- TAPE PAPERWORK IN PLASTIC BAGS UNDER COOLER LID.
- · CLOSE COOLER AND SEAL WITH CUSTODY SEALS.

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Water Samples	Required Volume		Container Type
Extractable Analysis (Low Level)	Gallon	<u>چ</u>	1 X 4-Litter Amber Glass Bottle
("Om (BAR)		<b>.</b> .	OR
			2 X 80-oz. Amber Glass Bottle
			OR
			4 X 1-Liter Amber Gloss Bottles
Éxtractable Analysis	Gallon		32-cz. Wide-Mouth
(Medinu revel.)			Glos Jos
Volatile Analysis	80 mi		2 X 40-mi. Glass Vias
Level*)			

Soll/Sediment	Required Volume	Container lyne
Extractable Analysis (Low or Medium Level*)	Ó QZ.	' X 8-ct wo voutr
	240 mi.	2 x 4-oz Wide-Mouth Gloss Jors
Voicitie Analyss (Low or Medium Level")		Wdo Morm Glos

tSoil VOA Vicin under sucty, subject to change, check to ensure proper sealing

# HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	 Container Type
Extractable and Volatile Analysis	6 QZ.	1 X 8-oz.Wide-Mouth Glass Jar



"All Medium and High Level Samples to be Sedled in Metal Can for Shipment

### 1. Organic Sample Collection Requirements

- · Please indicate sample to spike and/or duplicate.
- Ship medium and high concentration samples in paint cans.
- Aqueous samples require one triple-volume sample per twenty for Matrix Spike/Matrix Spike Duplicate.
- · Oily samples must be analyzed under the Special Analytical Services (SAS) program.
- Confirmatory analysis and Special Analytical Services (SAS) parameters may require extra volume; for SAS
  consult specified SAS methods for requirements.
- Additional sample volume not required for method OLCO1.

## 2. Cooler and Sample Documentation

- Complete all sections of the Traffic Report/Chain of Custody Form Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Overlap the lid and bottle and bottle of each sample container with custody seals.
- · Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Cool low waters to 4° C. Cooling of low soils is optional. Do not cool medium or high concentration waters and soils.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler, overlapping the lid and body with custody seals.
- FAX SMO a copy of the Traffic Report/Chain of Custody Form as soon as possible. Send SMO the pink copy of the Traffic Report within 5 days.
- In column E RAS analysis indicate number of sample bottles sent for analysis.

#### 3. Sample Shipment Reporting

PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)

Required information:

Case (and/or SAS) Number

Date shipped

Number of samples by concentration and matrix

Carrier and airbill number

Next planned shipment

Leave your name and a number where you can be reached.

- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
- · CALL IF YOU HAVE ANY QUESTIONS

USEPA Contract Laboratory Program

Sample Management Office

P.O. Box 818

Alexandria, VA 22313 Phone: (703) 557-2490

(703) 684-5678 FAX: (703) 683-0378

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2 Ground V 3 Leachale		3 NaC	HC	Sampl	Sampler Signature								6. Ship	То				8. Tr	ansfer to		Dat	Date Received	
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## EXHIBIT C

TARGET COMPOUND LIST (TCL) AND CONTRACT REQUIRED QUANTITATION LIMITS (CRQL)

LOW / MEDIUM CONC.

PAS OFFINANIC

NOTE: The values in these tables are quantitation limits, <u>not</u> absolute detection limits. The amount of material necessary to produce a detector response that can be identified <u>and</u> reliably quantified is greater than that needed to simply be detected above the background noise. The quantitation limits in these tables are set at the concentrations in the sample equivalent to the concentration of the lowest calibration standard analyzed for each analyte.

Specific quantitation limits are highly matrix dependent. The quantitation limits listed herein are provided for guidance and may not always be achievable.

The CRQL values listed on the following pages are based on the analysis of samples according the specifications given in Exhibit D. For each fraction and matrix, a brief synopsis of the sampling handling and analysis steps is given, along with an example calculation for the CRQL value. All CRQL values are rounded to two significant figures. For soil samples, the moisture content of the samples is <u>not</u> considered in these example calculations.

TARGET COMPOUND LIST (TCL) AND CONTRACT REQUIRED QUANTITATION LIMITS (CRQL)

		Ouantitation Limits*					
		Water		On Column			
Pesticides/Aroclors	CAS Number	ug/L	ur/Kg	(pg)			
98. alpha-BHC	319-84-6	0.05	1.7	5			
99. beta-BHC	319-85-7	0.05	1.7	5			
100. delta-BHC	319-86-8		1.7	5			
101. gamma-BHC (Lindane)	58-89-9		1.7	5			
102. Heptachlor	76-44-8	0.05	1.7	5			
•••			• •				
103. Aldrin	309-00-2	0.05	1.7	5			
104. Heptachlor epoxide	1024-57-3	0.05	1.7	5			
105. Endosulfan I	959-98-8	0.05	1.7	5			
106. Dieldrin	60-57-1		3.3	10			
107. 4,4'-DDE	72-55-9	0.10	3.3	10			
108. Endrin	72-20-8	0.10	3.3	10			
109. Endosulfan II	33213-65-9	0.10	3.3	10			
110. 4,4'-DDD	72-54-8	0.10	3.3	10			
111. Endosulfan sulfate	1031-07-8	0.10	3.3	10			
112. 4,4'-DDT	50-29-3		3.3	10			
	55 25 5						
113. Methoxychlor	72-43-5	0.50	17.0	50			
114. Endrin ketone	53494-70-5	0.10	3.3	10			
115. Endrin aldehyde	7421-36-3	0.10	3.3	10			
116. alpha-Chlordane	5103-71-9	0.05	1.7	5			
117. gamma-Chlordane	5103-74-2	0.05	1.7	5 <sup>.</sup>			
118. Toxaphene	8001-35-2	5.0	170.0	500			
119. Aroclor-1016	12674-11-2	1.0	33.0	100			
120. Aroclor-1221	11104-28-2	1.0	33.0	100			
121. Aroclor-1232	11141-16-5	2.0	67.0	200			
122. Aroclor-1242	53469-21-9	1.0	33.0	100			
123. Aroclor-1248	12672-29-6	1.0	33.0	100			
124. Aroclor-1254	11097-69-1	1.0	33.0	100			
125. Aroclor-1260	11097-89-1	1.0	33.0	100			
123. ALUCIUL-120V	TT020+97+3	1.0	٥. د د	100			

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There is no differentiation between the preparation of low and medium soil samples in this method for the analysis of Pesticides/Aroclors.

<sup>\*</sup> Quantitation limits listed for soil/sediment are based on wet weight. The quantitation limits calculated by the laboratory for soil/sediment, calculated on dry weight basis as required by the contract, will be higher.

# APPENDIX E SITE RECONNAISSANCE CHECKLIST

## SITE RECONNAISSANCE CHECKLIST GENERAL SITE INFORMATION WORKSHEET

I. SITE INSPECTION INFORMATION	
1 Date and time of the inspection://_ at	_: a.m/p.m
2 WESTON personnel performing the inspection:	
<b>a.</b> b	
c	
3. Names of site owner or representatives present	•
<b>a</b>	
b	
4 Names of regulatory officials present:	
b	
C	
5 Weather conditions during inspection:  a. Temperature: degrees F  b. Cloud Cover: percent  c. Rain/snow: amount	
II. GENERAL SITE INFORMATION	
1 Official site name / CERCLIS ID:	(TXD
2. Accurate street address:	
3. City and State:	
List current owner(s) name(s) and address(es):	
List past site owners and addressess, if possible:	
Indicate ownership type ("C" for current, "P" for pa	ıst)
a. Private e. Federal	
b Municipal f DOD c County g DOE	
d State h. Indian	
e Unknown i Other (describe):	-
3 Verify site location on a topo map, indicating the re	eason for any discrenancies below:



## IIL STIE FEATURES

1 Draw a s	sketch map of the site to show the location	of important site features
a. b. c. d.	e site access features:  Locations where the site can be accessed:  Major roads leading to site:  On-site roads / paths and their condition:  Location/condition of barricades impeding	
a b c d 4 Indicate t a. b. c.	Lumber or wood products Inorganic chemicals Plastics or rubber products	esponding letter from above beside type below  1 Retail  m Recycling  n Junk/salvage vard
d. e. f. g. h. i. j.	Paints or varnishes Industrial organic chemicals Agricultural chemicals Misc. chemical products Fabricated structural metal products Electronic equipment Other manufacturing: Mining and other exploration:	o Municipal landfill p DOD q DOE r DOI s Other federal facility: t RCRATSD site: u RCRA generator: v Other RCRA: x Other:
5 Status:  5 Describe  a  b  c  d	buildings or other structures (occupant, siz	left site
a b c d e £	and describe the following:  Municipal water supply hook ups, if an Storm drain Inlets or discharge points Sanitary sewers Parking lots and other impervious surface Water wells Oil and gas wells: Mining activities onsite: Rail spur locations (usage):	

# IV. NATURAL SITE FEATURES 1. \_\_\_ Describe regional and site topography 2. \_\_\_ Determine the site surface gradient / slope 3. \_\_\_ Describe site and adjacent property vegetation 4. \_\_\_ Describe site surface soils (texture, color, structure) 5. \_\_\_ Describe site and local surface geological features (lithology, structures, grain size) 6. \_\_\_ Locate and map nearby surface water bodies surface:

a. Determine the dimensions and profile of each surface water body

	b. Describe flow rate and direction of flow, if any
	c. Indicate the type surface water usage (fisheries, water intakes)
7	Locate and map any springs, seeps, ponded areas or wetlands
8	Locate and map any drainage swales or ditches onsite
9	Determine the direction and destination of site runoff
10	List other potentially sensitive environments

# V. OTHER NOTABLE SITE FEATURES

1. \_\_\_\_ Describe any other notable site features below:



## VL SITE OPERATIONAL HISTORY

1	Describe the exact types and quantities of wastes stored and generated (what when):
	a
	b
	c
	d
	E
	Ĺ
2	Determine the locations of historic waste disposal practices onsite (check as source area belo
3	Map and describe historic buildings, storage areas or process areas no longer obvious onsite:
4	Determine the current/historical number of occupants or workers onsite daily
5	Describe in detail the current/historical processes used onsite:
6	List site environmental related permits (RCRA, TACB, TWC, TRRC, TDH, etc.)  a. b.
	c d
7. <u> </u>	Get copies of any manifests or other records available

# POTENTAL /ASTE SOURCES IDENTIFY TION WORKSHEET

L	Check	the	potential	waste	sources	below	which	are	found o	onsite:
---	-------	-----	-----------	-------	---------	-------	-------	-----	---------	---------

1.	Dry wells or injection wells
2	Ponds, lagoons or other surface impoundment
3.	Landfills
4.	Land treatment or land farming areas
5.	Areas of contaminated soil
6.	Storage tanks or other nondrum containers
7.	Drums or drum-like containers
8.	Incineration areas or burn pits
9.	Piles (Chemical, scrap metals, tailings, etc.)
10.	Ventilation systems
11.	Hydraulic lifts
12.	Pits or sumps
13.	Transformers
14.	Contaminated sediments or surface water with unidentified source
15.	Contaminated groundwater with unidentified source
16.	Other source type (describe:)
17.	No sources identified



# (Complete one sheet for each source area)

1.	Assign waste source a name for identification:
2	Status of source area (closed, inactive, active)
3.	Locate the source area on a map and describe location:
4. —	Measure the dimensions of the source area:
5. —	Determine the length of time that the source area contained waste:
6.	Describe the method of source containment and degree of maintenance:
7.	Describe the method of secondary containment and maintenance:
8.	Indicate the current and historical contents of source area:
	a. Metals i. Paints/pigments/dyes
	b. Inorganics j. Solvents
	c. Organics k. Laboratory/hospital waste
	d. Radioactive waste l. Construction/demolition waste
	e. Pesticides/herbicides m. Acids/bases
	f. Oily waste n. Municipal/residential type waste
	g. Mining waste 1. Other (describe)
	h. Explosives
9.	Describe the physical state of the waste (check one)
·	a. Solid b. Powder
	c. Liquid d. Sludge
	c. Gas
10.	Determine the location of waste generation:
10	a onsite b offsite (generator):
11.	Indicate who authorized waste deposition:
11	a. Present owner c. Unauthorized
	b Former owner d Unknown
12.	Assess the accessibility of the source area to the public:
12. <u> </u>	
13.	a. Accessable b. Nonaccessable (why):  Current and historical high level of containment
	Method of eccordary containment and domes of resistances
15 —	Method of secondary containment and degree of maintenance Indicate if there is visual evidence of a release
1	
	a Discharges or waste streams (Indicate receiving body): b Leachate outbreak
	c Spill or leak
	d Other type of release (describe):
16	Indicate if there is visual evidence of conveniencian account course
10	Indicate if there is visual evidence of contamination around source
	a Stained/contaminated soil (area):  b No evidence of
17	Describe cover over the source area
11	
	a Engineered cap
	b. Buried (w/soil, asphalt, etc.)
18.	c. Other (Roof, tarp, etc.)
	Functioning collection or venting system (describe in detail)
19. —	Evidence of biogas release (odors, vapors, FID response)
ZU	Describe Vegetation around source area:
	a. Type and degree of vegetation:
	b. Condition of vegetation (stressed/unaffected):

VIII. OFFSITE SURVEY	
1. Describe and locate t. a map adjacent and nearby site of interest.	
a	
b	
<b>c.</b>	
2 Map location of public facilities (schools, day care facilities, parks, etc.)	
a	
b	
e	
3 Determine the location and number of residences within a 1/2 mile radius of the site	
4 Determine the population of workers, schoolchildren, etc in areas near the site	
5. List alternative source sites within a four mile radius:	
a. Automobile service stations	
1	
2	
b. Dry cleaners	
1	
2	
c. Manufacturing/industrial sites	
1	
2	
d. Rail loading areas	
1	
e. Landfills	
1.	
f. Other sites	
1.	
6 Locate and describe surface water bodies as follows:	
a. Distance to probable point of entry of a waste from the site	
b. Flow rate and direction of flow	
c. Storm drains discharging into the surface water body	_
d. Potential targets along the surface water	_
e. Branching in surface water flow path and effect on target	_
f. Tidal influence effect on flow	_
g. Tributaries with alternative source sites	_
h. Drinking water intakes	-
i. Fishing or other recreational use recreation	
7 Locate and describe water wells in the distance limit, as possible:	
a. Location of well and distance from site	
b. Well owner and population potentially served	
c. Well usage and completion information	